Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application **Commissioner for Patents** P.O. Box 1450 Alexandria VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Yan I. Wang, Tom Derryberry

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors." For (title):

TITLE: ADAPTIVE SPREADING FACTOR BASED ON POWER CONTROL

EXPRESS MAILING UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date <u>February 17, 2004</u> ___, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 as "Express Mail Post Office to Addressee" Mailing Label No. $\frac{EV}{393301065}$ US

> Cathy Wilcox (type or print name of person mailing paper)

Signature of person certifying

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]-page 1 of 15)

1. Type of Application This new application is for a(n) (check one applicable item below) Original (nonprovisional) □ Design □ Plant WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application. WARNING: Do not use this transmittal for the filing of a provisional application. NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION. Divisional. XContinuation. ☐ Continuation-in-part (C-I-P). 2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121) NOTE: "A nonprovisional application or international application designating the United States of America may claim an invention disclosed in one or more prior-filed copending nonprovisional applications or international applications designating the United States of America. In order for an application to claim the benefit of a prior-filed copending nonprovisional application or international application designating the United States of America, each prior-filed application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed application must be: (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or (ii) Complete as set forth in § 1.51(b); or (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or

fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention

WARNING: 37 C.F.R. § 1.78(a)(2) deals with the time in which the claim for the benefit of an earlier filing date must be made and states:

"(2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).

- (ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed application. If the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed application. These time periods are not extendable. Except as provided in paragraph (a)(3) of this section, the failure to timely submit the reference required by 35 U.S.C. 120 and paragraph (a)(2)(f) of this section is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-filed application. The time periods in this paragraph do not apply if the later-filed application is:
 - (A) An application for a design patent;
 - (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
- (C) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.
- (iv) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filed application. The identification of an application by application number under this section is the identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number."

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A. Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application

15 Pages of specification7 Pages of claims

__7_ Sheets of drawing

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identification of drawings. Identifying indicia, if provided, should include the title of the invention, inventor's name and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin." (complete the following, if applicable) The enclosed drawing(s) are photograph(s). NOTE: 37 C.F.R. 1.84 "(b) Photographs. "(1) Black and white. Photographs, including photocopies of photographs, are not ordinarily permitted in utility and design patent applications. The Office will accept photographs in utility and design patent applications, however, if photographs are the only practicable medium for illustrating the claimed invention. For example, photographs or photomicrographs of: electrophoresis gels, blots (e.g., immunological, western, Southern, and northern), auto radiographs, cell cultures (stained and unstained), histological tissue cross sections (stained and unstained), animals, plants, in vivo imaging, thin layer chromatography plates, crystalline structures, and, in a design patent application, ornamental effects, are acceptable. If the subject matter of the application admits of illustration by a drawing, the examiner may require a drawing in place of the photograph. The photographs must be of sufficient quality so that all details in the photographs are reproducible in the printed patent. "(2) Color photographs. Color photographs will be accepted in utility and design patent applications if the conditions for accepting color drawings and black and white photographs have been satisfied. See paragraphs (a)(2) and (b)(1) of this section." The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b). NOTE: 37 C.F.R. 1.84(a) "(2) Color. On rare occasions, color drawings may be necessary as the only practical medium by which to disclose the subject matter sought to be patented in a utility or design patent application or the subject matter of a statutory invention registration. The color drawings must be of sufficient quality such that all details in the drawings are reproducible in black and white in the printed patent. Color drawings are not permitted in international applications (see PCT Rule 11.13), or in an application, or copy thereof, submitted under the Office electronic filing system. The Office will accept color drawings in utility or design patent applications and statutory invention registrations only after granting a petition filed under this paragraph explaining why the color drawings are necessary. Any such petition must include the following: (i) The fee set forth in § 1.17(h); (ii) Three (3) sets of color drawings; (iii) A black and white photocopy that accurately depicts, to the extent possible, the subject matter shown in the color drawing; and (iv) An amendment to the specification to insert (unless the specification contains or has been previously amended to contain) the following language as the first paragraph of the brief description of the drawings: The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee." formal informal B. Other Papers Enclosed Pages of declaration and power of attorney Pages of abstract Other

4. Add	itiona	I papers enclosed
) An	nendment to claims
		Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
		Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
×) Pro	eliminary Amendment
X] Inf	ormation Disclosure Statement (37 C.F.R. § 1.98)
NOTE:		F.R. § 1.97 (b) An information disclosure statement shall be considered by the Office if filed by plicant within any one of the following time periods:
		Nithin three months of the filing date of a national application other than a continued prosecution lication under § 1.53(d);
		Within three months of the date of entry of the national stage as set forth in § 1.491 in an mational application;
	(3) 1	Before the mailing of a first Office action on the merits; or
WARNII	с 3	n order to ensure consideration of information previously submitted but which has not been onsidered in the parent application, an applicant must resubmit the information, complying with 7 C.F.R. § 1.97 and 37 C.F.R. § 1.98, in the continuing application filed under 37 C.F.R. § 1.53(b). See § 609B(3), M.P.E.P., 7th Edition, Rev. 1.
X) Fo	rm PTO-1449 (PTO/SB/08A and 08B)
X] Cit	ations
) De	claration of Biological Deposit
	pe	bmission of "Sequence Listing," computer readable copy and/or amendment rtaining thereto for biotechnology invention containing nucleotide and/or nino acid sequence.
) Au tive	thorization of Attorney(s) to Accept and Follow Instructions from Representa-
] Sp	ecial Comments
] Ot	her
5. Dec	aratic	on or oath (including power of attorney)
NOTE:	the pri by all applica- the sig by a s being declara- persor	If y executed declaration is not required in a continuation or divisional application provided that for nonprovisional application contained a declaration as required, the application being filed is or fewer than all the inventors named in the prior application, there is no new matter in the ation being filed, and a copy of the executed declaration filed in the prior application (showing gnature or an indication thereon that it was signed) is submitted. The copy must be accompanied tatement requesting deletion of the names of person(s) who are not inventors of the application filed. If the declaration in the prior application was filed under § 1.47, then a copy of that ation must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning a under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently ted declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).
NOTE:	A deci	laration filed to complete an application must be executed, identify the specification to which it cted, identify each inventor by full name including family name and at least one given name, without viation together with any other given name or initial, and the residence, post office address and

country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)–(4).

NOTE: "The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under

this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).

	nciosed
E	xecuted by
	(check all applicable boxes)
	inventor(s).
	legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
	joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
	☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
ΔN	ot Enclosed.
the U may	e the filing is a completion in the U.S. of an International Application or where the completion of I.S. application contains subject matter in addition to the International Application, the application be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
, 🗆	Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).
(The decl	aration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
	☐ Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
6. Inventors	hip Statement
•	If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The invent	orship for all the claims in this application are:
☐ T h	ne same.
	or
	ot the same. An explanation, including the ownership of the various claims at e time the last claimed invention was made,
	will be submitted.
7. Language	
An Ei requii	plication including a signed oath or declaration may be filed in a language other than English. Inglish translation of the non-English language application and the processing fee of \$130.00 and the processing f
🛛 Er	nglish
	on-English
	The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).

8. Assi	gnment				
<u>K</u>	An assignment of the invention to Nokia Corporation				
WARNII	MENT) ACCOMPANYII 1595 is also attached. Will follow. "If an assignment is submitted with a and one for the assignment." Notice WG: A newly executed "CERTIFICATI in-part application is filed by an	new application, send two so of May 4, 1990 (1114 O.G. E UNDER 37 C.F.R. § 3.73(L) assignee. Notice of April 3	b)" must be filed when a continuation- 30, 1993, 1150 O.G. 62-64.		
L	This is a continuation document for the parent a		-		
	on	splication o /	was nieu		
	•		Reel		
			Frame		
9. Cert	ified Copy				
Certific	ed copy(ies) of application(s)				
Cour	try	Appln. No.	Filed		
Cour	try	Appln. No.	Filed		
Coun	try	Appln. No.	Filed		
from whi	ch priority is claimed				
	is (are) attached.				
	will follow.				
NOTE:	37 C.F.R. § 1.55 Claim for foreign pi "(a) * * *	riority.			
	during the pendency of the applicat of the application or sixteen month period is not extendable. The claim as well as any foreign application to of the application for which priorit	ion, and within the later of form the filing date of the must identify the foreign appeared to the same subject matter y is claimed, by specifying month, and year of its filing	claim for priority must be presented our months from the actual filing date e prior foreign application. This time plication for which priority is claimed, and having a filing date before that the application number, country (or g. The time periods in this paragraph oplication is:		
	(A) A design application; or				
	(B) An application filed before Nove	ember 29, 2000.			
	priority under 35 U.S.C. 119(a)-(d, paragraph (a) of this section is consi 119(a)-(d) or 365(a) is presented afticlaim may be accepted if the claim ic number, country (or intellectual pro	or 365(a) not presented of dered to have been waived. Her the time period provided dentifying the prior foreign ap operty authority), and the da o accept a delayed claim fo	sions of this paragraph, any claim for within the time period provided by If a claim for priority under 35 U.S.C. by paragraph (a) of this section, the oplication by specifying its application ay, month, and year of its filing was or priority under 35 U.S.C. 119(a)-(d)		

- (1) The claim under 35 U.S.C. 119(a)-(d) or 365(a) and this section to the prior foreign application, unless previously submitted;
 - (2) The surcharge set forth in § 1.17(t); and
- (3) A statement that the entire delay between the date the claim was due under paragraph (a)(1) of this section and the date the claim was filed was unintentional. The Commissioner may require additional information where there is a question whether the delay was unintentional."

NOTE: 37 C.F.R. § 1.63 Oath or declaration.

- "(a) An oath or declaration filed under § 1.51(b)(2) as a part of a nonprovisional application must:
- (c) Unless such information is supplied on an application data sheet in accordance with § 1.76, the oath or declaration must also identify:
 - (2) Any foreign application for patent (or inventor's certificate) for which a claim for priority is made pursuant to § 1.55, and any foreign application having a filing date before that of the application on which priority is claimed, by specifying the application number, country, day, month, and year of its filing."

The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F.R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT CF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. § 1.16)

A. X Regular application

	CLAIMS AS FILED		
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$770.00
Total Claims (37 C.F.R. § 1.16(c)) 14	- 20 = 0 ×	\$ 18.00	
Independent Claims (37 C.F.R. § 1.16(b))	- 3 = ⁰ ×	\$ 86.00	
Multiple dependent claim(s if any (37 C.F.R. § 1.16(c)		\$290.00	
☐ Amendment de ☐ Fee for extra cl	ncelling extra claims is enclor leting multiple-dependencies aims is not being paid at this are not paid on filing they must be of the time period set for response	is enclosed s time. paid or the clair	ms cancelled by amendmen
nouse of les deficient	Filing Fee Calculation		\$ _770.00

(New Application Transmittal [4-1]—page 8 of 15)

В.		Design application	
		(\$340.00—37 C.F.R. § 1.16(f))	
		Filing Fee Calculation	\$
C.		Plant application (\$530.00—37 C.F.R. § 1.16(g))	
		Filing fee calculation	\$
11.	Ass	sertion of Small Entity Status	
		Applicant hereby asserts status as a small en	tity under 37 C.F.R. § 1.27
NO		37 C.F.R. § 1.27(c) deals with the assertion of small entity declaration thereof or by payment as a small entity of the bathe national phase and states:	y status, whether by a written specific
		"(c) Assertion of small entity status. Any party (person, organization) should make a determination, pursuant to part to be accorded small entity status based on the definitions and must, in order to establish small entity status for the pur make an assertion of entitlement to small entity status, in tor (c)(3) of this section, in the application or patent in which	agraph (f) of this section, of entitlement set forth in paragraph (a) of this section, pose of paying small entity fees, actually he manner set forth in paragraphs (c)(1)
		(1) Assertion by writing. Small entity status may be establis to small entity status. A written assertion must:	hed by a written assertion of entitlement
		(i) Be clearly identifiable;	
		(ii) Be signed (see paragraph (c)(2) of this section); and	
		(iii) Convey the concept of entitlement to small entity s is a small entity, or that small entity status is entitled to the While no specific words or wording are required to asse small entity status must be clearly indicated in order to	be asserted for the application or patent. It small entity status, the intent to assert
		(2) Parties who can sign and file the written assertion. The	e written assertion can be signed by:
		(i) One of the parties identified in § 1.33(b) (e.g., an atto § 3.73(b) of this chapter notwithstanding, who can also	mey or agent registered with the Office), of file the written assertion;
		(ii) At least one of the individuals identified as an inventor or declaration has not been submitted), notwithstanding assertion pursuant to the exception under § 1.33(b) of	1.33(b)(4), who can also file the written
		(iii) An assignee of an undivided part interest, notwithst chapter, but the partial assignee cannot file the assertion § 1.33(b) of this part.	anding §§ 1.33(b)(3) and 3.73(b) of this without resort to a party identified under
		(3) Assertion by payment of the small entity basic filing or party, of the exact amount of one of the small entity basic (g), (h), or (k), or one of the small entity basic national fees (a)(4), or (a)(5), will be treated as a written assertion of entity type of basic filing or basic national fee is inadvertently significant.	ic filing fees set forth in §§ 1.16(a), (f), set forth in §§ 1.492(a)(1), (a)(2), (a)(3), lement to small entity status even if the
		(i) If the Office accords small entity status based on paym national fee under paragraph (c)(3) of this section that is balance of the small entity fee that is applicable to that appropriate surcharge set forth in § 1.16(e), or § 1.16(l)	not applicable to that application, any application will be due along with the
		(ii) The payment of any small entity fee other than those se (whether in the exact fee amount or not) will not be treat to small entity status and will not be sufficient to establ	ed as a written assertion of entitlement

or a patent."

WARNING:	37 C.F.R. § 1.27(c)(4): "Assertion required in related, continuing, and reissue applications. Status as a small entity must be specifically established by an assertion in each related, continuing and reissue application in which status is appropriate and desired. Status as a small entity in one application or patent does not affect the status of any other application or patent, regardless of the relationship of the applications or patents. The refiling of an application under § 1.53 as a continuation, divisional, or continuation-in-part application (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application, requires a new assertion as to continued entitlement to small entity status for the continuing or reissue application."
WARNING:	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P., § 509.03 (emphasis added).
	(complete the following, if applicable)
	tatus as a small entity was asserted in the prior application
_	/, filed on, from which benefit
is	being claimed for this application under:
,	35 U.S.C. §
	and which status as a small entity is still proper and asserted for this application.
	A copy of the written assertion of small entity filed in the prior application is included.
estat for a	fund based on establishment of small entity status, of a portion of fees timely paid in full prior to olishing status as a small entity may only be obtained if an assertion under § 1.27(c) and a request refund of the excess amount are filed within three months of the date of the timely payment of ull fee. The three-month time period is not extendable under § 1.136. 37 C.F.R. § 1.28(a).
Fi	ling Fee Calculation (50% of A, B or C above)
	\$
12. Reques	st for International-Type Search (37 C.F.R. § 1.104(d))
	(complete, if applicable)
	lease prepare an international-type search report for this application at the time

13. F		rayment being made at this tim	
l	X.	Not Enclosed	
		☐ No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.1 subsequently.)	6(e) can be paid
(Enclosed	
		☐ Filing fee	\$
		☐ Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$
		☐ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$
		☐ For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(i))	\$
		Processing and retention fee(\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$
		☐ Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
NOTE:	fai 37 eit	7 C.F.R. § 1.21(f) establishes a fee for processing and retaining any application ailing to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as v.7 C.F.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a ither the basic filing fee must be paid, or the processing and retention fee of § vithin 1 year from notification under § 53(f).	well as the changes to prior U.S. application,
		Total fees enclosed \$_	,
14. M	eth	hod of Payment of Fees	
		Attached is a	
[]	Authorization is hereby made to charge the amount of \$	
		☐ to Deposit Account No	
		□ to Credit card as shown on the attached credit card infortion form PTO-2038.	mation authoriza-
WARN	ING.	2: Credit card information should not be included on this form as it may be	come public.
C	J	Charge any additional fees required by this paper or credit in the manner authorized above.	any overpayment
		A duplicate of this paper is attached.	

15. Authorization to Charge Additional Fees

WARN	IINC	i: If	no fees are to be paid on filing, the following items should not be completed.
WARNING:			ccurately count claims, especially multiple dependent claims, to avoid unexpected high charges, extra claim charges are authorized.
WARN	IING	or pa th an na su th	ven though small entity status is accorded where the wrong type of small entity basic filing feet basic national fee is selected but the exact amount of the fee is paid, applicant still needs to any the correct small entity amount for the basic filing or basic national fee where selection of the wrong type of fee results in a deficiency. While an accompanying general authorization to charge by additional fees suffices to pay the balance due of the proper small entity basic filing or basic national fee, specific authorizations to charge fees under § 1.17 or extension of time fees do not diffice to pay any balance due of the proper small entity basic filing or basic national fee because ey do not actually authorize payment of small entity amounts. Changes To Implement the Patent usiness Goals; Final Rule [Fed. Reg.: September 8, 2000, pages 54603-54683, at 54611; OG: ctober 3, 2000, pages 14-39].
[)	follo	e Office is hereby authorized to charge, in the manner shown above, the owing additional fees that may be required by this paper and during the entire idency of this application.
			37 C.F.R. § 1.16(a), (f) or (g) (filing fees)
			37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)
NOTE:	m se to	ust or t for a uth	e additional fees for excess or multiple dependent claims not paid on filing or on later presentation only be paid or these claims cancelled by amendment prior to the expiration of the time period response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not corize the PTO to charge additional claim fees, except possibly when dealing with amendments and action.
			37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
			37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).
			37 C.F.R. § 1.17 (application processing fees)
NOTE:	or as ch co an \$ rec	future incor arge nstrue exter 1.17(a quiring	written request may be submitted in an application that is an authorization to treat any concurrent or reply, requiring a petition for an extension of time under this paragraph for its timely submission, porating a petition for extension of time for the appropriate length of time. An authorization to all required fees, fees under § 1.17, or all required extension of time fees will be treated as a cive petition for an extension of time in any concurrent or future reply requiring a petition for assion of time under this paragraph for its timely submission. Submission of the fee set forth in all will also be treated as a constructive petition for an extension of time in any concurrent reply a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. (a)(3).
			37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))
NOTE:	ma gen to fee the cun aba to n is n issu in n	ny be ineral the mand issued in issu	1.311(b) provides that an authorization to charge the issue fee (§ 1.18) to a deposit account filed in an individual application only after the mailing of the notice of allowance. Accordingly, authorizations to pay fees and specific authorizations to pay the issue fee that are filed prior railing of a notice of allowance will generally not be treated as requesting payment of the issue will not be given effect to act as a reply to the notice of allowance. Applicant, when paying a fee, should submit a new authorization to charge fees, such as by completing box 6b on the PTOL-85B form. Where no reply to the notice of allowance is received, the application will stand and notwithstanding the presence of general authorizations to pay fees or a specific authorization are issue fee that were submitted prior to mailing of the notice of allowance. Where an attempt to pay the issue fee but an incorrect amount is submitted, § 1.311(b)(1), or where the Office's a transmittal form (currently PTOL-85(B)) is completed by applicant and submitted, § 1.311(b)(2), so a notice of allowance, an exception will be made. Such submissions will operate as a request the issue fee to any deposit account identified in a previously filed (i.e., submitted prior to

the mailing of the notice of allowance) authorization to charge fees, and will be allowed to act as payment of the correct issu fee. § 1.311(b). See also the charge to § 1.26(b). Notic of September 8, 2000,

Fed. Reg. 54603-54683, at 54646 and 54647.

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

16. Instructions as to Ov rpaym nt

NOTE:	а	Amounts of twenty-five dollars or less will not be returned unless specifically requested within reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
)	Credit Account No.
Ę]	Refund

Reg. No. 54,106

Tel. No. (203) 261-1234

Customer No. 004955

SIGNATURE OF PRACTITIONER

Anatoly Frenkel

Ware, Fressola, Van Der Sluys & Adolphson LLP

(type or print name of attorney)

755 Main Street, P.O. Box 224

P.O. Address

Monroe, Connecticut 06468

(New Application Transmittal [4-1]—page 13 of 15)

p si ti	check the following item if the application in this transmittal claims the benefit or frior U.S. application(s) (including an international application entering the U.S. tage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
Ž	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
	Number of pages added
	Plus Added Pages for Papers Referred to in Item 4 Above
	Number of pages added
	Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
	Number of pages added
	Plus "Assignment Cover Letter Accompanying New Application"
	Number of pages added
State	ment Where No Further Pages Added
(if th	no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
	This transmittal ends with this page.
	P State State

oxtimes Incorporation by reference of added pages

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED (37 C.F.R. § 1.78)

17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. § 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. § 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. § 119, 365(a) or 365(b).) For a c-l-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

Amend the specification by inserting, before the first line following the title, the following sentence:

A. 35 U.S.C. § 119(e)

NOTE: 37 C.F.R. § 1.78(a)(4) and (5):

"(4) A nonprovisional application, other than for a design patent, or an international application designating the United States of America may claim an invention disclosed in one or more prior-filed provisional applications. In order for an application to claim the benefit of one or more prior-filed provisional applications, each prior-filed provisional application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed provisional application must be entitled to a filing date as set forth in § 1.53(c), and the basic filing fee set forth in § 1.16(k) must be paid within the time period set forth in § 1.53(g).

"(5)(i) Any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed provisional applications must contain or be amended to contain a reference to each such prior-filed provisional application, identifying it by the provisional application number (consisting of series code and serial number).

- (ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed provisional application. If the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed provisional application. These time periods are not extendable. Except as provided in paragraph (a)(6) of this section, the failure to timely submit the reference is considered a waiver of any benefit under 35 U.S.C. 119(e) to such prior-filed provisional application. The time periods in this paragraph do not apply if the later-filed application is:
 - (A) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
 - (B) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title."

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4] ---page 1 of 8)

	"This application claims the benefit of U.S.	
	APPLICATION NO(S).:	FILING DATE
		.11
WARNING:	37 C.F.R. § 1.78(5)(iv): "(iv) If the prior-filed provision than English and an English-language translation of statement that the translation is accurate were not papplication or the later-filed nonprovisional application of time within which to file an English-language translaprovisional application and a statement that the translapplication, failure to timely reply to such a notice with the translation of time within which to timely reply to such a notice with the translation.	the prior-filed provisional application and a previously filed in the prior-filed provisional, applicant will be notified and given a period ation of the non-English-language prior-filed ation is accurate. In a pending nonprovisional
	Language of Prior Filed Provisio	nal Application
(Su	pply information for each provisional whose	e benefit is being claimed)
	identified prior filed provisional application	
	was filed in the English language	whose belieff is being claimed
	was filed in a language other than English ar a statement that the translation is accurate was	nd an English translation along with as filed in the provisional application
	vas filed in a language other than English ar a statement that the translation is accurate	nd an English translation along with
B. 35 U.	S.C. Sections 120, 121 and 365(c)	
WARNING:	The applicable provisions for the time and manner of clifling date are set forth in 37 C.F.R. § 1.78(a)(1) and	aiming the benefit of a prior U.S. application (2) as follows:
	"(a)(1) A nonprovisional application or international at America may claim an invention disclosed in one or applications or international applications designating the application to claim the benefit of a prior-filed copendinal application designating the United States of America, an inventor at least one inventor named in the later- inventor's invention claimed in at least one claim of the later-	more prior-filed copending nonprovisional ne United States of America. In order for an ag nonprovisional application or international each prior-filed application must name as filed application and disclose the named

by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed application must be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(I) within the time period set forth in § 1.53(f).

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4] -page 2 of 8)

- (2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).
 - (ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed application. If the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed application. These time periods are not extendable. Except as provided in paragraph (a)(3) of this section, the failure to timely submit the reference required by 35 U.S.C. 120 and paragraph (a)(2)(i) of this section is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-filed application. The time periods in this paragraph do not apply if the later-filed application is:
 - (A) An application for a design patent;
 - (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
 - (C) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
 - (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.
 - (iv) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filed application. The identification of an application by application number under this section is the identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number."

X	"Th	is application is a		
	X	continuation		
1		continuation-in-part		
		divisional		
of cop	end	ing application(s)		
1	X	application number 0 / 10/040,891	filed on January 2, 2002"	
(International Applicationwhich designated the U.S."	_ filed on ar	nd
NOTE:		ne proper reference to a prior filed PCT application that en- erial number and the filing date of the PCT application that		.S.
NOTE:	th) Where the application being transmitted adds subject ma e filing can be as a continuation-in-part or (2) if it is desired on be as a continuation.	tter to the International Application, th to do so for other reasons then the fili	en ng
	Α)	Added Pages for Application Transmittal Where Benefit of	Prior U.S. Application(s) Claimed [4–1.—page 3 of	_

☐ "Th	ne nonprovisional application design	gnated above, namely application, claims the benefit of U.S.
Pro	visional Application(s) No(s).:	, slame the serious of c.s.
	APPLICATION NO(S).:	FILING DATE
		37
	·	
		<u>"</u> "
C. Publica	tion of International Application—P	rovisional Application
NOTE: 35 U.S.	C. 154 Contents and term of patent; provisional	al rights.
(d)	(4) REQUIREMENTS FOR INTERNATIONAL AF	PPLICATIONS—
the the a c the the	(A) EFFECTIVE DATE.—The right under paragraph publication under the treaty defined in section 3 to United States shall commence on the date on vice opy of the publication under the treaty of the intensity of the international application is in a language. Patent and Trademark Office receives a translatinguage.	851(a) of an international application designating which the Patent and Trademark Office receives mational application, or, if the publication under guage other than English, on the date on which
The internati	onal application corresponding to the	instant application
☐ was	;	
☐ was	not	
published unde	er PCT Article 21(2) in the English lan	guage.
☐ An i	English translation of the international	application is attached.
	ack35 U.S.C. § 119 Priority Claim	
	R. § 1.55 Claim for foreign priority.	••
more	n applicant in a nonprovisional application ma prior foreign applications under the conditions '2, and 365(a) and (b).	y claim the benefit of the filing date of one or specified in 35 U.S.C. 119(a) through (d) and
dur dat tim	 i) In an original application filed under 35 U.S.C. ing the pendency of the application, and within e of the application or sixteen months from the e period is not extendable. The claim must iden imed, as well as any foreign application for the 	the later of four months from the actual filing filing date of the prior foreign application This tify the foreign application for which priority is

paragraph does not apply to an application for a design patent.

(ii) In an application that entered the national stage from an international application after compliance with 35 U.S.C. 371, the claim for priority must be made during the pendency of the application and within the time limit set forth in the PCT and the Regulations under the PCT."

before that of the application for which priority is claimed, by specifying the application number, country (or intellectual property authority), day, month, and year of its filing. The time period in this

(2) The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) or PCT Rule 17 must, in any event, be filed before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by the processing fee set forth in § 1.17(i), but the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and § 1.323.

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Count	ry	Appln. No.	Filed
The ce	tified copy(i s) has (ha	ave)	
	been filed on which was filed on _	, in prior application	0 /,
	is (are) attached.		
	the International Bureau is application in the continuapplication communicated U.S. serial number unless tage is not entered. The prosecution of a continual documents from the folder to request transfer, retrieventer and make a record the priority documents is stage may not be relied.	e priority application that may have been of may not be relied on without any need to file nuing application. This is so because the red by the International Bureau is placed in ss the national stage is entered. Such folders erefore, such certified copies may not be a sing application. An alternative would be to the earlier them to the continuing application of such copies in the Continuing Application of folders of international applications that on. Notice of April 28, 1987 (1079 O.G. 3)	e a certified copy of the priority e certified copy of the priority in a folder and is not assigned is are disposed of if the national available if needed later in the physically remove the priority ication. The resources required is, transfer the certified copies, on are substantial. Accordingly, have not entered the national
		ncy of Prior Application	
re	he PTO finds it useful if a c esponse is filed with the pa ovember 5, 1985 (1060 O.G	copy of the petition filed in the prior applications apers constituting the filing of the continual. 27).	cation extending the term for uation application. Notice of
A. 🗆	Extension of time in I	prior application	
(This it	em must be completed period se	d and the papers filed in the pric et in the prior application has run.)	or application , if the
	A petition, fee and resuntil	sponse extends the term in the pe	ending prior application
	A copy of the petition	n filed in prior application is attac	hed.
B. 🗆		or Extension of Time in Prior Appl	
	(complete this	s item, if previous item not applica	able)
	☐ A conditional petit application.	tion for extension of time is being fi	led in the pending prior
	☐ A copy of the co	nditional petition filed in the prior	application is attached.

20. Further Inventorship Statement Wh re B nefit of Prior Application(s) Claimed		
		(complete applicable item (a), (b) and/or (c) below)
(a)	NX)	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are the same.
		less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
		(type name(s) of inventor(s) to be deleted)
(b)		This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application the inventor(s) in this application are
		the same.
		☐ the following additional inventor(s) have been added:
		(type name(s) of inventor(s) to be deleted)
(c)		The inventorship for all the claims in this application are
		☐ the same.
		not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
		☐ is submitted.
		☐ will be submitted.
21. /	Abaı	donment of Prior Application (if applicable)
		Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
NOTE	p: re	cording to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in- rt application is a proper response with respect to a petition for extension of time or a petition to rive and should include the express abandonment of the prior application conditioned upon the anting of the petition and the granting of a filing date to the continuing application.
		on for Suspension of Prosecution for the Time Necessary to File and adment
WAR	NING	"The claims of a new application may be finally rejected in the first Office action in those situations where (A) the new application is a continuing application of, or a substitute for, an earlier application, and (B) all the claims of the new application (1) are drawn to the same invention claimed in the earlier application, and (2) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." M.P.E.P. § 706.07(b), 7th ed.
NOTE	ar	nere it is possible that the claims on file will give rise to a first action final for this continuation application of for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) nay be desirable to file a petition for suspension of prosecution for the time necessary.
		(check the next item, if applicable)
		e is provided herewith a Petition To Suspend Prosecution for the Time Necessary le An Amendment (New Application Filed Concurrently)
	(A	dded Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.4] —page 6 of 8)

23. Small	l Entity (37 C.F.R. § 1.28(a))
	Applicant has established small entity status by the filing of a statement in parent application on
	A copy of the statement previously filed is included.
WARNING:	See 37 C.F.R. § 1.28(a).
WARNING:	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P. § 509.03, 7th ed. (emphasis added).
24. NOTII	FICATION IN PARENT APPLICATION OF THIS FILING
	A notification of the filing of this
	(check one of the following)
[🖰 continuation
[□ continuation-in-part
[☐ divisional
s being file J.S.C. § 12	d in the parent application, from which this application claims priority under 35 20.